

Message Text

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NASA FOR IFFT

E.O. 11652: N/A

TAGS: TSPA, UR, US

SUBJECT: US-USSR SPACE AGREEMENT: SPACE METEOROLOGY
(04.01)

1. INTERKOSMOS AUGUST 8 PROVIDED EMBOFF WITH THREE LETTERS DATED AUGUST 8 FOR DR. L. R. GREENWOOD, L. A. ALEXANDROV OF HYDROMET. ONE LETTER TRANSMITS UPPER AIR ANALYSIS MAPS FOR THE PERIOD JULY 2 TO SEPTEMBER 2, 1977. A SECOND LETTER TRANSMITS FINAL DATA ON THE LAUNCHINGS OF THE M-100B ROCKETS. AN INFORMAL EMBASSY TRANSLATION IS PROVIDED PARA 2 BELOW. THE THIRD LETTER DISCUSSES THE PROBLEMS WHICH HAVE ARISEN IN THE AREAS OF UPPER AIR ANALYSIS MAPS AND GEOMAGNETIC AND SOLAR ACTIVITY. INFORMAL EMBASSY TRANSLATION PROVIDED PARA 3 BELOW. ALL THREE LETTERS AND ENCLOSURES POUCHED TO NASA FOR IFFT, REGISTRY NO. 2404874.

2. DEAR DR. GREENWOOD:

I AM SENDING YOU THE FINAL DATA ON THE M-100 B ROCKET LAUNCHINGS WHICH WERE CONDUCTED DURING THE UNCLASSIFIED

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EXPERIMENT ON COMPARING THE ROCKET SYSTEMS OF THE US AND USSR IN AUGUST 1977 AT WALLOPS ISLAND. THE DATA PRESENTED IS OF TWO TYPES.

1.) THE STANDARD TREATMENT USED IN THE ROCKET NETWORK OF THE USSR AT PRESENT.

2.) A PROSPECTIVE TREATMENT WHICH WILL BECOME STANDARD AFTER THE INTRODUCTION OF NEW CONSTRUCTIONS FOR THERMOMETERS AND PARACHUTES.

DURING THE COMPARISON PERIOD IN 1977 THE NEW CONSTRUCTION OF THERMOMETERS AND PARACHUTES WERE ALREADY BEING USED.

IN ACCORDANCE WITH THE AGREEMENT BETWEEN DR. IVANOVSKY AND DR. SCHMIDLIN AT INNSBRUCK IN JUNE 1978:

1.) THE SOVIET SIDE IS SENDING THROUGH THE US EMBASSY IN MOSCOW THE FINAL DATA ON THE M-100B ROCKET LAUNCHINGS FOR PREPARING THE FINAL EVALUATION OF THE COMPARISONS.

2.) DR. IVANOVSKY AND DR. SCHMIDLIN AGREED ON PART OF THE TEXT OF THE FINAL EVALUATION AND DISCUSSED THOSE PARTS OF THE PRELIMINARY EVALUATION WHICH WILL BE CHANGED OR SUPPLEMENTED FOR INCLUSION IN THE FINAL EVALUATION. DR. SCHMIDLIN HAS THOSE MATERIALS.

3.) AT THE END OF AUGUST THE TEXT OF THE FINAL EVALUATION WILL BE SENT BY THE US SIDE TO THE USSR, UPON RECEIPT OF WHICH THE RUSSIAN TEXT WILL BE EDITED BY SOVIET SPECIALISTS, AND AN ENGLISH TEXT WITH OUR CORRECTIONS AND NECESSARY SIGNATURES WILL BE RETURNED TO THE US.

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4.) THE RUSSIAN TEXT OF THE FINAL EVALUATION WILL BE PREPARED BY SOVIET SPECIALISTS AND SENT TO THE US IN OCTOBER.

DETAILS ON THE EXCHANGE OF EVALUATIONS CAN BE CLARIFIED BY EXCHANGE OF CORRESPONDENCE.

I INFORM YOU THAT I APPROVE THE PROPOSALS ON EXCHANGING MATERIALS, AGREED TO AT INNSBRUCK BY DR. IBANOVSKY AND SCHMIDLIN.

INsofar AS DIFFERENCES REMAIN IN THE TEMPERATURE MEASUREMENTS ABOVE 50 KM., OBTAINED WITH THE AID OF OUR ROCKET SYSTEMS, AND AS THESE DIFFERENCES ARE APPARENTLY CONNECTED WITH THE CHARACTER OF THE INTRODUCED CORRECTIONS, I PROPOSE A MEETING OF SOVIET AND AMERICAN SPECIALISTS ON THE DEVELOPMENT OF METHODS OF CORRECTION FOR TEMPERATURE MEASUREMENTS IN ORDER TO DISCUSS THE REASONS FOR THE REMAINING DIFFERENCES. THIS MEETING CAN TAKE PLACE AT AN AGREED TIME IN THE US OR USSR.

I ASK YOU TO GIVE YOUR OPINION ON OUR
PROPOSALS AND INFORM US OF THIS BY TELEGRAM.

SINCERELY, L. A. ALEXANDROV.

3. DEAR DR. GREENWOOD:

I SHARE YOUR EVALUATION OF THE GENERAL COURSE OF OUR
COOPERATION IN THE AREA OF ROCKET METEOROLOGY.
I WOULD LIKE TO EXPRESS MY OPINION CONCERNING YOUR
COMMENTS ON THE DIFFICULTIES WHICH HAVE

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ARISEN IN TWO AREAS OF OUR JOINT WORK.

UPPER AIR ANALYSIS MAPS (UNDERLINED)

OUR SPECIALISTS CONSIDER THE CRITERIA USEFUL BY WHICH
IT IS NECESSARY TO BE GUIDED IN PREPARING UPPER AIR
MAPS. APPARENTLY WE STILL HAVE TO REINFORCE THESE
CRITERIA WITH CONCRETE FORM AND AGREED NUMERICAL
EVALUATIONS. AS FAR AS THE FULFILLMENT OF CRITERIA
BY THE SOVIET SIDE IS CONCERNED, THE MATTER STANDS
AS FOLLOWS:

1.) THE SIZE OF THE MAPS HAS BEEN INCREASED FOR BETTER
READIBILITY OF THE DATA. MAPS IN THE NEW FORMAT WERE
PREPARED TO BE SENT TO YOU FOR THE PERIOD BEGINNING
JULY 1, 1977.

2.) WORK IS BEING COMPLETED ON THE JOINT PLOTTING OF
PRESSURE AND TEMPERATURE DATA AT STANDARD ALTITUDES

OF 35, 40, AND 45 KM. THESE MAPS WILL BE SENT TO YOU BEGINNING IN SEPTEMBER 1978. FOR OTHER STANDARD ALTITUDES ONLY THE PRESSURE DATA WILL BE PLOTTED.

3.) CONTROL OF THE PRIMARY MAPS RECEIVED ACCORDING TO UNCLASSIFIED

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SATELLITE DATA IS CARRIED OUT BY MEANS OF COMPARING THE GEOSTROPHIC WIND OF MAP DATA WITH THE ROCKET OBSERVATIONS ON ALL POINTS FOR WHICH WE HAVE ROCKET DATA. IN THE EVENT OF GROSS DIFFERENCES A DECISION IS MADE ON THE RELIABILITY OF THE SATELLITE OR ROCKET DATA.

4.) THE HYDROSTATIC EQUATION IS USED FOR THE INTERPOLATION OF DATA AT THE STANDARD ALTITUDE.

5.) THE EVENTS OF THE CHANGE OF STEP IN PLOTTING ISOLINES TOOK PLACE EARLIER. MEASURES FOR THE EXACT OBSERVANCE OF THE AGREED STEPS HAVE BEEN TAKEN.

THE REASON FOR THE ABSENCE OF DATA ON TEMPERATURE AT ALTITUDE ABOVE 45 KM. AND ALSO OF THE VERTICAL CONTROL WITH THE AID OF THE HYDROSTATIC EQUATION

CNSTRUCTING THE VERTICAL TEMPERATURE PROFILES FROM THE DATA AT THREE SATELLITE ALTITUDES (5, 2, AND .4 MB). AT THE CURRENT TIME OUR SPECIALISTS ARE DEVELOPING A METHOD OF CONSTRUCTING TEMPERATURE PROFILES FROM SATELLITE DATA WITH THE USE OF DATA ON THE STATISTICAL STRUCTURE OF THE TEMPERATURE PROFILE VARIANTS AT THE ALTIDUES 30 - 60 KM. WE WILL COMPLETE IN 1979 THE DEVELDPMENT OF THIS METHOD AND ITS REALIZATION IN THE OPERATIVE PROGRAMS FOR CONSTRUCTING PRESSURE AND TEMPERATURE MAPS ON COMPUTERS AT ALL STANDARD ALTITUDES IN AGREEMENT WITH THE GEOSTROPHIC VARIABLES AND THE HYDROSTATIC EQUATION. IT SEEMS TO US THAT YOUR SPECIALISTS ALSO ARE EXPERIENCING DIFFICULTIES IN CONSTRUCTING A VERTICAL TEMPERATURE PROFILE FOR THE AGREEMENT OF MAPS WITH THE HYDROSTATIC EQUATION.

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IT IS POSSIBLE THAT YOUR SPECIALISTS HAVE FOUND A MEANS OF OVERCOMING THESE DIFFICULTIES, IN THAT CASE I WOULD BE GRATEFUL FOR INFORMATION AND AN EXCHANGE OF OUR EXPERIENCES.

THUS, OUR SPECIALISTS ARE TAKING INTO ACCOUNT THE
AGREED CRITERIA ON CONSTRUCTING MAPS, ARE PERFECTING
THEIR REALIZATION AND NUMERICAL EVALUATIONS, AND
ARE INTERESTED IN CONTINUING JOINT WORK.

GEOMAGNETIC AND SOLAR ACTIVITY (UNDERLINED)

WE REGRET THAT IN CONNECTION WITH A CHANGE IN NASA'S
SCIENTIFIC PROGRAM YOU DO NOT FORESEE A CONTINUATION
OF WORK ON RESEARCH ON THE INTERACTION BETWEEN
PROCESSES IN THE UPPER ATMOSPHERE AND GEOMAGNETIC
ACTIVITY.

OUR NEW RESULTS AND ARTICLES WHICH HAVE APPEARED IN
THE PRESS OVER THE PAST 2 YEARS, INCLUDING SOME BY
AMERICAN AUTHORS, DEMONSTRATE THE GOOD PROSPECTS FOR
THIS DIRECTION OF WORK AND THE GROWTH OF INTEREST IN
SIMILAR RESEARCH IN THE SCIENTIFIC COMMUNITY.

IN CONCLUSION I WANT TO INFORM YOU THAT OUR SPECIALISTS
VALUE HIGHLY THE SUCCESSES ACHIEVED BY US IN THE AUTO-
MATION OF THE CONSTRUCTION OF UPPER AIR MAPS.

SINCERELY, L. A. ALEXANDROV. TOON

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